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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,830	01/29/2004	Atsushi Fukuda	248225US8	2363

  

22850	7590	07/03/2007
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.		
1940 DUKE STREET		
ALEXANDRIA, VA 22314		

  

EXAMINER	
LE, LANA N	

  

ART UNIT	PAPER NUMBER
2618	

  

NOTIFICATION DATE	DELIVERY MODE
07/03/2007	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com  
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<b>Office Action Summary</b>	<b>Application No.</b> 10/765,830	<b>Applicant(s)</b> FUKUDA ET AL.	
	<b>Examiner</b> Lana N. Le	<b>Art Unit</b> 2618	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 07 December 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 3, 5-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 3, 5-7 and 10 is/are allowed.
- 6) ☒ Claim(s) 8 and 9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 8-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Saito (US 4,989,262).

Regarding claim 8, Saito discloses the radio communication terminal (fig. 1) comprising:

a receiver (2) connected to a receiving antenna (1), and interference canceller (10-1) for canceling a radiated noise component of electronic equipment from a received signal output from said receiver (col 2, lines 51-68); wherein said interference canceller (10-1) includes: a radiated noise predictor (6-1, 7-1, 8-1, 9-1) for generating a pseudo interference signal based on the radiated noise produced by said electronic equipment; and an adder (11) for adding together said received signal (from main IF converter 2) and said pseudo interference signal (from 6-1) to cancel said radiated noise component in said received signal (col 3, lines 14-19), which further comprises a plurality of receivers (2, receivers to receive signal from transmitter station; col 3, lines 20-22) each connected to one of a plurality of antennas (1, 3-1,..., 3-n), a diversity receiver (12) and wherein: said interference canceller (10-1) includes a plurality of

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adders (11-1,11-2,...,11-n) each corresponding to one of said plurality of receivers; said radiated noise predictor includes a plurality of amplitude/phase adjustors (6-1) for adjusting amplitudes and phases of radiated noises from electronic equipment (30-1) to generate pseudo interference signals in correspondence with said plurality of receivers, and a control part (8-1, 9-1) for controlling the amplitude and phase adjustments by said plurality of amplitude/phase adjustors based on the outputs from said plurality of adders (feedback from outputs of adders 11-1,. .... 11-n), the outputs from said plurality of adders being diversity-received by said diversity receiver (12).

Regarding claim 9, Saito discloses the radio communication terminal of claim 3 or 8, wherein said interference canceller (10-1; fig. 1) includes a band converting part (5-1) which converts said radiated noise from electronic equipment (10-1) to the same band as that of the output received signal of said receiver (2) and provides the converted output to the radiated noise predictor (6-1, 7-1, 8-1, 9-1).

### ***Allowable Subject Matter***

3. Claims 3 and 5-7, and 10 were allowed for the same reason as in the previous office action filed 10/18/06.

### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lana N. Le whose telephone number is (571) 272-7891. The examiner can normally be reached on M-F 9:30-18:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LNL  
/lnl/



6-19-07

*Lana H. Le*  
Primary Examiner  
Technology Center 2600